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**From:** Donohue, Joyce [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=BB5340EC745149EDBF80D2B8B2F9B919-JDONOHUE]  
**Sent:** 12/17/2015 5:30:24 PM  
**To:** Sue Chang [s.chang@mmm.com]  
**Subject:** RE: Question on PFOS solubility in fresh water and salt water

Dear Sue:

Thanks a lot. It helps a lot. I hope you have a lovely holiday too.

Joyce

-----Original Message-----

From: Sue Chang [mailto:s.chang@mmm.com]  
Sent: Thursday, December 17, 2015 12:02 PM  
To: Donohue, Joyce <Donohue.Joyce@epa.gov>  
Cc: CarolAnn Ley <caley@mmm.com>  
Subject: RE: Question on PFOS solubility in fresh water and salt water

Dear Joyce,

Thanks for the note. I second on your notion in that there are (many) references out there.

I checked with our experts in the 3M Environmental Lab and have them evaluate the numbers that are currently available. With their review, they recommended the following numbers based their analyses on the quality of the study design:

The water solubility was determined to be 680 mg/L at 24-25oC. For natural seawater, 12.4 mg/L. For 3.5% NaCl water solution, 20.0 mg/L; and for octanol, 56 mg/L.

These numbers can be found on pages 221 - 226 of the attached OCED assessment that I am including in this note.

Hope this helps. Please let me know if there are any questions. Happy holidays!

Best,

Sue

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Sue Chang, Ph.D.  
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-----Original Message-----

From: Donohue, Joyce [mailto:Donohue.Joyce@epa.gov]  
Sent: Tuesday, December 15, 2015 8:41 AM  
To: Sue Chang <s.chang@mmm.com>  
Subject: [EXTERNAL] Question on PFOS solubility in fresh water and salt water

Dear Sue:

We are finding quite variable estimates in PFOS solubility in fresh water and salt water across different references. Can you provide the best values to me along with a reference?

Joyce

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